

09/18, 943

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(FILE 'HOME' ENTERED AT 08:45:08 ON 23 JUL 2002)

FILE 'CA' ENTERED AT 08:45:19 ON 23 JUL 2002

| | |
|----|---|
| | E GASSENMEIER THOMAS/AU |
| L1 | 53 S E3-E4 |
| | E MILLHOFF JUERGEN/AU |
| L2 | 11 S E3-E4 |
| | E SCHMIEDEL PETER/AU |
| L3 | 45 S E2-E3 |
| | E VON RYBINSKI WOLFGANG/AU |
| L4 | 121 S E2-E3 |
| | E KRUPP UTE/AU |
| L5 | 8 S E3 |
| L6 | 15795 S (SILICATE# OR ALUMINOSILICATE# OR ZEOLITE# OR PHOSPHATE# OR |
| T | |
| L7 | 453 S DETERGENT#(P) (SILICATE# OR ALUMINOSILICATE# OR ZEOLITE# OR |
| PH | |

=>

L1 53 ("GASSENMEIER THOMAS"/AU OR "GASSENMEIER THOMAS OTTO"/AU)

=> d 1-53 ll ti

L1 ANSWER 1 OF 53 CA COPYRIGHT 2002 ACS
TI Fixation of carbohydrates to hair fibers

L1 ANSWER 2 OF 53 CA COPYRIGHT 2002 ACS
TI Enzymatic fixation of derivatized carbohydrates to fibrous materials

L1 ANSWER 3 OF 53 CA COPYRIGHT 2002 ACS
TI Immobilization of active agents on hair fibers

L1 ANSWER 4 OF 53 CA COPYRIGHT 2002 ACS
TI Ring opening agents of fat chemical epoxides obtained by fat chemistry
and
their use in cosmetic preparations

L1 ANSWER 5 OF 53 CA COPYRIGHT 2002 ACS
TI Use of carbohydrates for protection from hair dryers in hair treatment
agents

L1 ANSWER 6 OF 53 CA COPYRIGHT 2002 ACS
TI Method for coating basic particle compounds

L1 ANSWER 7 OF 53 CA COPYRIGHT 2002 ACS
TI Antimicrobial treatment of material likely to be infested with microbes

L1 ANSWER 8 OF 53 CA COPYRIGHT 2002 ACS
TI Urethane based on organoleptically active aromatic alcohols

L1 ANSWER 9 OF 53 CA COPYRIGHT 2002 ACS
TI Manufacture of perfume alcohol esters with biodegradable polyesters and
their use

L1 ANSWER 10 OF 53 CA COPYRIGHT 2002 ACS
TI Meso-porous ceramic adsorbents for the release of active ingredients

L1 ANSWER 11 OF 53 CA COPYRIGHT 2002 ACS
TI Detergent tablets containing special surfactant granulates and their
production

L1 ANSWER 12 OF 53 CA COPYRIGHT 2002 ACS
TI Use of perfumed alcohol alkoxylates as solubilizing auxiliary agents

L1 ANSWER 13 OF 53 CA COPYRIGHT 2002 ACS
TI Alkoxylated perfumed alcohols for cosmetics

L1 ANSWER 14 OF 53 CA COPYRIGHT 2002 ACS
TI Use of alkoxylates of aromatic alcohols in detergents and cosmetic
formulations

L1 ANSWER 15 OF 53 CA COPYRIGHT 2002 ACS
TI Granular detergents containing protease and percarbonate

L1 ANSWER 16 OF 53 CA COPYRIGHT 2002 ACS
TI Detergents with controlled release of active ingredients

L1 ANSWER 17 OF 53 CA COPYRIGHT 2002 ACS
TI Particle compositions containing active substance and substance with lower critical solution temperature for controlled release

L1 ANSWER 18 OF 53 CA COPYRIGHT 2002 ACS
TI Method for the production of particulate washing or cleaning agents

L1 ANSWER 19 OF 53 CA COPYRIGHT 2002 ACS
TI Detergent composition with controlled release of its components

L1 ANSWER 20 OF 53 CA COPYRIGHT 2002 ACS
TI Granulated clear rinse aids and detergents for automatic dishwashers

L1 ANSWER 21 OF 53 CA COPYRIGHT 2002 ACS
TI Dishwashing detergent component with double-controlled perfume release

L1 ANSWER 22 OF 53 CA COPYRIGHT 2002 ACS
TI Hair styling shampoos containing acrylic polymers

L1 ANSWER 23 OF 53 CA COPYRIGHT 2002 ACS
TI Hair styling shampoos containing acrylic polymers

L1 ANSWER 24 OF 53 CA COPYRIGHT 2002 ACS
TI Dispersions and emulsions containing fine-particle solids as dishwashing detergent components

L1 ANSWER 25 OF 53 CA COPYRIGHT 2002 ACS
TI Washing or cleaning agent shaped bodies with partial coating

L1 ANSWER 26 OF 53 CA COPYRIGHT 2002 ACS
TI Manufacture of capsules with controlled release of active materials for use in detergents and cleaning compositions

L1 ANSWER 27 OF 53 CA COPYRIGHT 2002 ACS
TI Coated detergent tablets

L1 ANSWER 28 OF 53 CA COPYRIGHT 2002 ACS
TI Particulate clear rinsing aids for use in machine dishwashers

L1 ANSWER 29 OF 53 CA COPYRIGHT 2002 ACS
TI Cosmetic and/or pharmaceutical preparations containing nucleic acids and .beta.-(1.fwdarw.3)-glucans

L1 ANSWER 30 OF 53 CA COPYRIGHT 2002 ACS
TI Aqueous antifoaming agent emulsion

L1 ANSWER 31 OF 53 CA COPYRIGHT 2002 ACS
TI Cosmetic use of cation-active mixtures

L1 ANSWER 32 OF 53 CA COPYRIGHT 2002 ACS
TI Cosmetic use of cation-active mixtures

L1 ANSWER 33 OF 53 CA COPYRIGHT 2002 ACS
TI Cosmetic use of cation-active mixtures

L1 ANSWER 34 OF 53 CA COPYRIGHT 2002 ACS
TI Cosmetic preparations containing esterquats

L1 ANSWER 35 OF 53 CA COPYRIGHT 2002 ACS
TI Use of cyclic carbonates as moisturizers

L1 ANSWER 36 OF 53 CA COPYRIGHT 2002 ACS
TI Detergent tablets with liquid binding agents

L1 ANSWER 37 OF 53 CA COPYRIGHT 2002 ACS
TI Method for producing coated solid particles as detergent components

L1 ANSWER 38 OF 53 CA COPYRIGHT 2002 ACS
TI Dishwashing detergent tablets with bleach activators

L1 ANSWER 39 OF 53 CA COPYRIGHT 2002 ACS
TI Dishwashing detergent tablets with chlorine bleaching agent

L1 ANSWER 40 OF 53 CA COPYRIGHT 2002 ACS
TI Dishwashing detergent tablets with specific surfactant content

L1 ANSWER 41 OF 53 CA COPYRIGHT 2002 ACS
TI Skin care agents for oily skin

L1 ANSWER 42 OF 53 CA COPYRIGHT 2002 ACS
TI C8-C22 carboxylic acid amide ether sulfates in surfactant combinations gentle to the skin

L1 ANSWER 43 OF 53 CA COPYRIGHT 2002 ACS
TI Moldings bearing high doses of fragrances for use in detergents and on textiles

L1 ANSWER 44 OF 53 CA COPYRIGHT 2002 ACS
TI Manufacture of encapsulated particles as components for detergents and cleaning compositions

L1 ANSWER 45 OF 53 CA COPYRIGHT 2002 ACS
TI Laundering process and granular laundry detergent with Ph-controlled release of detergent components

L1 ANSWER 46 OF 53 CA COPYRIGHT 2002 ACS
TI Lipid-containing care and cleansing products for skin and hair

L1 ANSWER 47 OF 53 CA COPYRIGHT 2002 ACS
TI Method for producing oil-in-water emulsions

L1 ANSWER 48 OF 53 CA COPYRIGHT 2002 ACS
TI Body cleanser

L1 ANSWER 49 OF 53 CA COPYRIGHT 2002 ACS
TI Procedure for hydrophobic surface treatment of particulate cleaning agents

L1 ANSWER 50 OF 53 CA COPYRIGHT 2002 ACS
TI Cosmetic and/or pharmaceutical preparations containing dialkyl carbonates

L1 ANSWER 51 OF 53 CA COPYRIGHT 2002 ACS
TI Multiple phase cosmetic emulsion containing calcium salt and non-volatile silicone surfactant

L1 ANSWER 52 OF 53 CA COPYRIGHT 2002 ACS
TI Cosmetic emulsions containing calcium salt of an acid and non-volatile
silicone surfactant

L1 ANSWER 53 OF 53 CA COPYRIGHT 2002 ACS
TI Oleobalneologics. Distribution condition of lipophilic substances in
floats

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=> d 6 11 all

L1 ANSWER 6 OF 53 CA COPYRIGHT 2002 ACS
AN 136:103948 CA
TI Method for coating basic particle compounds
IN Millhoff, Juergen; **Gassenmeier, Thomas Otto**; Hoeffkes, Horst;
Kleen, Astrid
PA Henkel Kommanditgesellschaft Auf Aktien, Germany
SO PCT Int. Appl., 12 pp.
CODEN: PIXXD2
DT Patent
LA German
IC ICM B01J013-04
ICS C01B015-10; C11D003-39
CC 42-10 (Coatings, Inks, and Related Products)
Section cross-reference(s): 48

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|------------------|----------|
| PI | WO 2002002221 | A1 | 20020110 | WO 2001-EP7207 | 20010621 |
| | W: AU, JP, US | | | | |
| | RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR | | | | |
| | DE 10032177 | A1 | 20020110 | DE 2000-10032177 | 20000701 |
| | AU 2001066091 | A5 | 20020114 | AU 2001-66091 | 20010621 |
| PRAI | DE 2000-10032177 | A | 20000701 | | |
| | WO 2001-EP7207 | W | 20010621 | | |

AB The invention relates to a method for coating basic particle compds. with a salt-forming acidic coating substances. The method enables creation of a homogeneous and thick coating. The compd. is suspended in a soln. of the coating substance in a non-aq. solvent in which the acidic coating substance dissolves well, but its alk. salt does not; it suspends and separates after a certain action time. A peroxo compd., esp. sodium percarbonate, is used as the particle compd., and a film forming polymer which has free carboxyl groups and a softening temp. of above 40 .degree.C is used as the coating substance. The coating substance may be a copolymer of the acrylic acid or methacrylic acid with an equiv. wt. (per free carboxyl group) of 200-500 and an av. mol. wt. of 100,000-500,000. An org. liq. solvent is suitable as the non-aq. solvent, boiling below

150 .degree.C under normal pressure, preferably a monovalent alc. comprising 1-4 C atoms.

ST coating basic particle sodium percarbonate; acrylic acid methacrylic acid coating basic particle

IT Coating materials
Coating process
(method for coating basic particulate compds.)

IT 15630-89-4, Sodium percarbonate
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
(method for coating basic particulate compds.)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Henkel Kgaa; EP 0358853 A 1990 CA
(2) Henkel Kgaa; DE 19619646 A 1997 CA

L2 11 ("MILLHOFF JUERGEN"/AU OR "MILLHOFF JURGEN"/AU)

=> d 1-11 12 ti

L2 ANSWER 1 OF 11 CA COPYRIGHT 2002 ACS

TI Method for coating basic particle compounds

L2 ANSWER 2 OF 11 CA COPYRIGHT 2002 ACS

TI Method for the production of particulate washing or cleaning agents

L2 ANSWER 3 OF 11 CA COPYRIGHT 2002 ACS

TI Dishwashing detergent component with double-controlled perfume release

L2 ANSWER 4 OF 11 CA COPYRIGHT 2002 ACS

TI Washing or cleaning agent shaped bodies with partial coating

L2 ANSWER 5 OF 11 CA COPYRIGHT 2002 ACS

TI Manufacture of capsules with controlled release of active materials for use in detergents and cleaning compositions

L2 ANSWER 6 OF 11 CA COPYRIGHT 2002 ACS

TI Aqueous antifoaming agent emulsion

L2 ANSWER 7 OF 11 CA COPYRIGHT 2002 ACS

TI Method for producing coated solid particles as detergent components

L2 ANSWER 8 OF 11 CA COPYRIGHT 2002 ACS

TI Moldings bearing high doses of fragrances for use in detergents and on textiles

L2 ANSWER 9 OF 11 CA COPYRIGHT 2002 ACS

TI Manufacture of encapsulated particles as components for detergents and cleaning compositions

L2 ANSWER 10 OF 11 CA COPYRIGHT 2002 ACS

TI Laundering process and granular laundry detergent with Ph-controlled release of detergent components

L2 ANSWER 11 OF 11 CA COPYRIGHT 2002 ACS

TI Body cleanser

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=> d 2 12 all

L2 ANSWER 2 OF 11 CA COPYRIGHT 2002 ACS
AN 135:21246 CA
TI Method for the production of particulate washing or cleaning agents
IN **Millhoff, Juergen**; Schmiedel, Peter; Von Rybinski, Wolfgang;
Krupp, Ute; Gassenmeier, Thomas Otto
PA Henkel Kommanditgesellschaft Auf Aktien, Germany
SO PCT Int. Appl., 16 pp.
CODEN: PIXXD2

DT Patent

LA German

IC ICM C11D017-00

ICS C11D003-06; C11D003-39; C11D003-08; C11D003-10; C11D003-12

CC 46-6 (Surface Active Agents and Detergents)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | WO 2001038477 | A1 | 20010531 | WO 2000-EP11425 | 20001117 |
| | W: AU, BR, CN, CZ, DZ, HU, ID, IL, IN, JP, KR, MX, PL, RO, RU, SG, SI, SK, TR, UA, ZA | | | | |
| | RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR | | | | |

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|--|-------------|----|----------|------------------|----------|
| | DE 19957036 | A1 | 20010531 | DE 1999-19957036 | 19991126 |
|--|-------------|----|----------|------------------|----------|

PRAI DE 1999-19957036 A 19991126

AB The particulate washing or cleaning agents, or their precursors are manufd. by coating a free-flowing acid component, e.g., a C10-22 mono- or dicarboxylic acid, C10-22 alk(en)yl sulfate, C10-22 alkylarylsulfonate, etc., on a particle comprising an alk. washing or cleaning agent-contg. material. As a result, the washing process begins at a relatively lower pH which, after a specified period of time, changes to higher values.

The

amt. of coated acid component depends on the radius of the solid particle,

i.e., $mc/(mc + mp) = c \cdot \text{cntdot} \cdot 1/r$, where mc = mass of the acid component, mp = mass of the particles, r = radius of the particles (preferably 100-1000 .mu.m), and c = factor of 0.5-20 length units. For example, a particulate component of a solid detergent was manufd. by mixing 1 kg Na percarbonate (av. particle size 400 .mu.m) with 25 g stearic acid at ambient temp., heating and compounding the mixt. in a blender for 20 min at 80.degree., and cooling.

ST detergent component particle acid coating; stearic acid coating sodium percarbonate solid detergent component

IT Detergents

(manuf. of particulate washing or cleaning agents comprising acid-coated particles)

IT 57-11-4, Stearic acid, uses

RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)

(manuf. of particulate washing or cleaning agents comprising acid-coated particles)

IT 15630-89-4, Sodium percarbonate

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(manuf. of particulate washing or cleaning agents comprising acid-coated particles)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Akzo Nv; GB 2000177 A 1979 CA
- (2) Henkel Kgaa; DE 4128826 A 1993 CA
- (3) Kao Corp; EP 0790298 A 1997 CA
- (4) Mouret, G; US 3525695 A 1970
- (5) Procter & Gamble; FR 2180864 A 1973 CA
- (6) Solvay Interlox GmbH; DE 4344831 A 1995 CA

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=> d 1-57.18 ti

L8 ANSWER 1 OF 57 CA COPYRIGHT 2002 ACS

TI Multi-purpose detergent composition

L8 ANSWER 2 OF 57 CA COPYRIGHT 2002 ACS

TI Preparation of loosened laundry powder comprising solid-phase **neutralized** sodium tripolyphosphate, carbonate, sulfate, sulfonic acid and foaming agent

L8 ANSWER 3 OF 57 CA COPYRIGHT 2002 ACS

TI Visualization test for **neutralization** of acids by marine cylinder lubricants

L8 ANSWER 4 OF 57 CA COPYRIGHT 2002 ACS

TI Laundry bleaching detergent compositions containing inorganic peroxides and cobalt complexes

L8 ANSWER 5 OF 57 CA COPYRIGHT 2002 ACS

TI Manufacture of detergent granulates

L8 ANSWER 6 OF 57 CA COPYRIGHT 2002 ACS

TI High-bulk-density granulated laundry detergent compositions containing polysaccharide-derived polycarboxylic acid builders

L8 ANSWER 7 OF 57 CA COPYRIGHT 2002 ACS

TI **Neutralization** process for making agglomerate detergent granules

L8 ANSWER 8 OF 57 CA COPYRIGHT 2002 ACS

TI Color-safe bleach boosters, bleaching compositions, laundry additive products, and laundering fabrics using the same

L8 ANSWER 9 OF 57 CA COPYRIGHT 2002 ACS

TI Manufacture of detergent slurries

L8 ANSWER 10 OF 57 CA COPYRIGHT 2002 ACS

TI Process for making high active, high density detergent granules

L8 ANSWER 11 OF 57 CA COPYRIGHT 2002 ACS

TI Low-temperature process for obtaining overbased calcium sulfonates

L8 ANSWER 12 OF 57 CA COPYRIGHT 2002 ACS

TI Detergent compositions containing sulfonated fatty acid alkyl ester salts

L8 ANSWER 13 OF 57 CA COPYRIGHT 2002 ACS

TI Process for preparing an aqueous viscoelastic automatic dishwasher detergent containing a silicate-**neutralized** crosslinked polyacrylate

L8 ANSWER 14 OF 57 CA COPYRIGHT 2002 ACS

TI Preparation of detergent granules by dry **neutralization** of sulfonic acids

L8 ANSWER 15 OF 57 CA COPYRIGHT 2002 ACS

TI Calcium borate overbased metallic detergent

L8 ANSWER 16 OF 57 CA COPYRIGHT 2002 ACS

TI Zeolite production from DSP in red mud feedstock

L8 ANSWER 17 OF 57 CA COPYRIGHT 2002 ACS
TI Manufacture of phenolate-containing overbased calcium sulfonates

L8 ANSWER 18 OF 57 CA COPYRIGHT 2002 ACS
TI Manufacture of phenolate-containing calcium sulfonate of different alkalinity

L8 ANSWER 19 OF 57 CA COPYRIGHT 2002 ACS
TI Process for the preparation of a basic salt, salt thus prepared and oil compositions containing such a salt

L8 ANSWER 20 OF 57 CA COPYRIGHT 2002 ACS
TI Manufacture of built detergent bars containing salts of fatty acid ester sulfonic acids

L8 ANSWER 21 OF 57 CA COPYRIGHT 2002 ACS
TI Dry **neutralization** process for sulfonated detergent alkylate slurries

L8 ANSWER 22 OF 57 CA COPYRIGHT 2002 ACS
TI Cold and dry process for detergent manufacture

L8 ANSWER 23 OF 57 CA COPYRIGHT 2002 ACS
TI Remedial methods for intergranular attack of Alloy 600 tubing. Volume 3. Boric acid and acetic acid remedial methods

L8 ANSWER 24 OF 57 CA COPYRIGHT 2002 ACS
TI Detergent powders

L8 ANSWER 25 OF 57 CA COPYRIGHT 2002 ACS
TI Zeolite slurries having static and dynamic stability

L8 ANSWER 26 OF 57 CA COPYRIGHT 2002 ACS
TI Synthesis of detergent-dispersing additives from sulfonic acids which are by-products in the production of compressor white oils

L8 ANSWER 27 OF 57 CA COPYRIGHT 2002 ACS
TI Detergent compositions

L8 ANSWER 28 OF 57 CA COPYRIGHT 2002 ACS
TI Dextrin carboxylates and their use as detergent builders

L8 ANSWER 29 OF 57 CA COPYRIGHT 2002 ACS
TI Superbasic detergent additives for lubricants

L8 ANSWER 30 OF 57 CA COPYRIGHT 2002 ACS
TI Detergent mixture

L8 ANSWER 31 OF 57 CA COPYRIGHT 2002 ACS
TI Forming stable, colloidal dispersions of a basic magnesium salt in a liquid lubricating oil

L8 ANSWER 32 OF 57 CA COPYRIGHT 2002 ACS
TI Production, properties, and use of cellulose sulfate esters

L8 ANSWER 33 OF 57 CA COPYRIGHT 2002 ACS

TI Detergent high-molecular-weight polysulfates

L8 ANSWER 34 OF 57 CA COPYRIGHT 2002 ACS
TI Olefin sulfonate detergents produced by hydrolysis of olefin-sulfur trioxide reaction product mixtures

L8 ANSWER 35 OF 57 CA COPYRIGHT 2002 ACS
TI Coordinated metal complexes of nitrogenous compounds for use in lubricants and fuels

L8 ANSWER 36 OF 57 CA COPYRIGHT 2002 ACS
TI Particulate detergent compositions of low bulk density

L8 ANSWER 37 OF 57 CA COPYRIGHT 2002 ACS
TI Highly basic formate-sulfonate complex detergent additives

L8 ANSWER 38 OF 57 CA COPYRIGHT 2002 ACS
TI Preparing an oil-soluble highly basic metal salt of an organic acid

L8 ANSWER 39 OF 57 CA COPYRIGHT 2002 ACS
TI Detergent lubricating oil additives

L8 ANSWER 40 OF 57 CA COPYRIGHT 2002 ACS
TI Detergent bar

L8 ANSWER 41 OF 57 CA COPYRIGHT 2002 ACS
TI Lubricant additives to eliminate "squawk"

L8 ANSWER 42 OF 57 CA COPYRIGHT 2002 ACS
TI Fatty acid esters of hydroxyalkane sulfonic acids

L8 ANSWER 43 OF 57 CA COPYRIGHT 2002 ACS
TI Detergents

L8 ANSWER 44 OF 57 CA COPYRIGHT 2002 ACS
TI Sulfonated granular detergents

L8 ANSWER 45 OF 57 CA COPYRIGHT 2002 ACS
TI Alkyl sulfate and alkylarenesulfonate detergents

L8 ANSWER 46 OF 57 CA COPYRIGHT 2002 ACS
TI Detergent lubricating oils having a high viscosity index

L8 ANSWER 47 OF 57 CA COPYRIGHT 2002 ACS
TI Purification of alkaryl sulfonates

L8 ANSWER 48 OF 57 CA COPYRIGHT 2002 ACS
TI Free-flowing alkyl aryl sulfonate detergent compositions

L8 ANSWER 49 OF 57 CA COPYRIGHT 2002 ACS
TI **Neutralization** of sulfonic acids

L8 ANSWER 50 OF 57 CA COPYRIGHT 2002 ACS
TI Guanidine alkyl aryl sulfonates

L8 ANSWER 51 OF 57 CA COPYRIGHT 2002 ACS
TI **Neutralization** of sulfonic acids

L8 ANSWER 52 OF 57 CA COPYRIGHT 2002 ACS
TI **Neutralization** of sulfonic acids and sulfuric acid esters

L8 ANSWER 53 OF 57 CA COPYRIGHT 2002 ACS
TI Salt-free organic sulfonate detergent

L8 ANSWER 54 OF 57 CA COPYRIGHT 2002 ACS
TI Lubricants containing guanidine salts of alkylaryl sulfonic acids

L8 ANSWER 55 OF 57 CA COPYRIGHT 2002 ACS
TI Organic sulfonic acids and their salts

L8 ANSWER 56 OF 57 CA COPYRIGHT 2002 ACS
TI Sulfur-containing esters of hydrolyzed ethylene-vinyl organic ester
interpolymers

L8 ANSWER 57 OF 57 CA COPYRIGHT 2002 ACS
TI Preparation of washing agents from saponins

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L8 ANSWER 2 OF 57 CA COPYRIGHT 2002 ACS

AN 131:288049 CA

TI Preparation of loosened laundry powder comprising solid-phase **neutralized** sodium tripolyphosphate, carbonate, sulfate, sulfonic acid and foaming agent

IN Chen, Minggao

PA Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

IC ICM C11D003-34

ICS C11D017-06

CC 46-5 (Surface Active Agents and Detergents)

Section cross-reference(s): 40

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|----------|
| | ----- | --- | ----- | ----- | ----- |
| PI | CN 1136079 | A | 19961120 | CN 1996-117436 | 19960202 |
| AB | The laundry powder for washing fabrics is composed of sulfonic acid 10-15, Na5P3O10 20-10, MgSO4 14.7-48.4, Na2CO3 30-5, Na2SO4 22-20, Na fatty alc. sulfate 2-1, brightener 0.2, foaming agent 1-0.3 and essence 0.1%. The washing powder is prepd. by (1) sieving Na5P3O10, MgSO4, Na2CO3, Na2SO4, Na fatty alc. sulfate with 50-100 mesh sieve, mixing, adding water, stirring for 15-25 min, (2) adding sulfonic acid, brightener and essence, stirring for 15-25 min to achieve solid-phase neutralization , and (3) adding foaming agent, stirring for 15-25 min, and adjusting pH to <10.5. The brightener is fluorescent powder and the foaming agent is phosphoric acid. | | | | |
| ST | laundry powder sodium tripolyphosphate loosened prepn; phosphoric acid laundry powder foaming agent | | | | |
| IT | Brightening (agents; prepn. of loosened laundry powder comprising solid-phase neutralized sodium tripolyphosphate, carbonate, sulfate, sulfonic acid and fluorescence brightener) | | | | |
| IT | Alcohols, uses RL: TEM (Technical or engineered material use); USES (Uses) (fatty, esters, monosodium sulfate; prepn. of loosened laundry powder comprising solid-phase neutralized sodium tripolyphosphate, carbonate, sulfate, sulfonic acid and) | | | | |
| IT | Detergents (laundry, granular; prepn. of loosened laundry powder comprising solid-phase neutralized sodium tripolyphosphate, carbonate, sulfate and sulfonic acid) | | | | |
| IT | Solid state reaction (neutralization ; prepn. of loosened laundry powder comprising solid-phase neutralized sodium tripolyphosphate, carbonate, sulfate and sulfonic acid) | | | | |
| IT | Sulfonic acids, uses RL: TEM (Technical or engineered material use); USES (Uses) (prepn. of loosened laundry powder comprising solid-phase neutralized sodium tripolyphosphate, carbonate, sulfate and sulfonic acid) | | | | |
| IT | Foaming agents | | | | |

(prepn. of loosened laundry powder in the presence of phosphoric acid
foaming agent)

IT 7487-88-9, Magnesium sulfate, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(prepn. of loosened laundry powder comprising solid-phase
neutralized sodium tripolyphosphate, carbonate, magnesium
sulfate and sulfonic acid)

IT 497-19-8, Sodium carbonate, uses 7757-82-6, Sodium sulfate, uses
7758-29-4, Sodium tripolyphosphate
RL: TEM (Technical or engineered material use); USES (Uses)
(prepn. of loosened laundry powder comprising solid-phase
neutralized sodium tripolyphosphate, carbonate, sulfate and
sulfonic acid)

IT 74434-64-3, Fluorescent powder
RL: TEM (Technical or engineered material use); USES (Uses)
(prepn. of loosened laundry powder comprising solid-phase
neutralized sodium tripolyphosphate, carbonate, sulfate,
sulfonic acid and fluorescent brightener)

IT 7664-38-2, Phosphoric acid, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(prepn. of loosened laundry powder in the presence of phosphoric acid
foaming agent)

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L8 ANSWER 12 OF 57 CA COPYRIGHT 2002 ACS
AN 123:317564 CA
TI Detergent compositions containing sulfonated fatty acid alkyl ester salts
IN Tano, Tetsuo; Yosha, Masahisa; Usui, Zenichi; Nagaai, Kazuo
PA Lion Corp, Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C11D001-28
ICS C11D003-10; C11D003-12
ICA C11D003-20
CC 46-5 (Surface Active Agents and Detergents)
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------|------|----------|-----------------|----------|
| PI | JP 07197080 | A2 | 19950801 | JP 1993-354677 | 19931228 |

AB Odorless **detergent** compns., useful for textiles, contain (a) **neutralized** salts of sulfonation products of fatty acid alkyl esters 2-50, (b) **carbonate** salts or hydrogen **carbonate** salts 2-30, (c) **zeolites** 2-30, and (d) AcOH, **oxalic** acid, or their salts 1 .times. 10-4-3%. Satd. fatty acid (C12:C14:C16:C18 = 10:25:55:10) Me esters were treated with SO3 gas to give .alpha.-sulfo fatty acid Me esters, which were treated with NaOH to give .alpha.-sulfo fatty acid Me ester Na salts (.alpha.-SF). A **detergent** compn. contg. .alpha.-SF 25, Na2CO3 15, **zeolite** 20, AcONa 2, Na oxalate 0.5, Na **silicate** 2, soap 2, Na2SO3 4, balance Na2SO4, polyethylene glycol 1, and H2O 5% was kept at 40.degree. for 1 mo to show no odor.

ST detergent fatty ester sulfonate salt; odorless detergent fatty ester sulfonate; carbonate fatty sulfonate ester detergent; zeolite fatty sulfonate ester detergent; acetate fatty sulfonate ester detergent; oxalate fatty sulfonate ester detergent

IT Palm oil
RL: MSC (Miscellaneous)
(fatty acids from; odorless detergent compns. contg. sulfonated fatty acid alkyl ester salts, (hydrogen)carbonate salts, zeolites, and acetates or oxalates for textiles)

IT Deodorization
Detergents
Sulfonation
Textiles
(odorless detergent compns. contg. sulfonated fatty acid alkyl ester salts, (hydrogen)carbonate salts, zeolites, and acetates or oxalates for textiles)

IT Carbonates, uses
Zeolites, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(odorless detergent compns. contg. sulfonated fatty acid alkyl ester salts, (hydrogen)carbonate salts, zeolites, and acetates or oxalates for textiles)

IT Fatty acids, uses
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material

use); PREP (Preparation); USES (Uses)
 (esters, sulfo, salts; odorless detergent compns. contg. sulfonated fatty acid alkyl ester salts, (hydrogen)carbonate salts, zeolites, and acetates or oxalates for textiles)

IT 62-76-0, Sodium oxalate 64-19-7, **Acetic** acid, uses 127-09-3, Sodium acetate 144-62-7, **Oxalic** acid, uses 497-19-8, Sodium carbonate, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (odorless **detergent** compns. contg. sulfonated fatty acid alkyl ester salts, (hydrogen)**carbonate** salts, **zeolites**, and acetates or oxalates for textiles)

IT 67-56-1DP, Methyl alcohol, esters with fatty acids 7446-11-9DP, Sulfur trioxide, sulfonation products with fatty acid esters
 RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation)
 (odorless detergent compns. contg. sulfonated fatty acid alkyl ester salts, (hydrogen)carbonate salts, zeolites, and acetates or oxalates for textiles)

IT 1310-73-2DP, Sodium hydroxide, salts with sulfonated fatty acid esters
 RL: PNU (Preparation, unclassified); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (odorless detergent compns. contg. sulfonated fatty acid alkyl ester salts, (hydrogen)carbonate salts, zeolites, and acetates or oxalates for textiles)

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=> d 20 18 all

L8 ANSWER 20 OF 57 CA COPYRIGHT 2002 ACS
AN 110:175556 CA
TI Manufacture of built detergent bars containing salts of fatty acid ester sulfonic acids
IN Sankholkar, Devadatta Shivaji; Ramanan, Ganapathysundaram V.
PA Hindustan Lever Ltd., India
SO Indian, 27 pp.
CODEN: INXXAP
DT Patent
LA English
IC ICM C11D001-28
CC 46-6 (Surface Active Agents and Detergents)
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| | ----- | ---- | ----- | ----- | ----- |
| PI | IN 162637 | A | 19880618 | IN 1985-B0236 | 19850902 |
| OS | MARPAT 110:175556 | | | | |
| AB | In the manuf. of the title bars, fatty acid ester sulfonic acids (optionally contg. other sulfonic acids) are neutralized in a mixt. with a stoichiometric amt. of Na, K, or ammonium carbonate , mixed with other detergent ingredients such as talc, Na5P3O10, and bleaching agents before, during or after neutralization , mixed with addnl. alkali comprising carbonate or silicate and other detergent ingredients, and processed to form bars. Using the stoichiometric amt. | | | | |
| of | base causes minimal (esp. <15%) hydrolysis of ester groups and gives bars having better lathering properties than bars prepd. with the use of | | | | |
| excess | carbonate during neutralization (i.e., causing hydrolysis of >15% of ester groups). | | | | |
| ST | fatty ester sulfonic acid neutralization ; sulfoalkanoate ester neutralization detergent; lathering fatty sulfoalkanoate ester; bar detergent fatty sulfoalkanoate ester | | | | |
| IT | Detergents (bars, manuf. of, neutralization of fatty acid ester sulfonic acids in) | | | | |
| IT | Fatty acids, esters RL: RCT (Reactant) (esters, sulfonated, neutralization of, in manuf. of detergent bars) | | | | |
| IT | 497-19-8, Disodium carbonate, reactions 506-87-6, Diammonium carbonate 584-08-7, Dipotassium carbonate RL: RCT (Reactant) (neutralization by, of sulfonated fatty esters in detergent manuf.) | | | | |

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L8 ANSWER 22 OF 57 CA COPYRIGHT 2002 ACS
AN 108:58365 CA
TI Cold and dry process for detergent manufacture
AU Naviglio, Antonio; Moriconi, Andrea
CS Univ. Roma, Rome, Italy
SO ICP (1987), 15(10), 106-9
CODEN: ICPDDL; ISSN: 0390-2358
DT Journal
LA Italian
CC 46-3 (Surface Active Agents and Detergents)
AB Lightwt. granular **detergents** were prepd. by
neutralization of **sulfonic** acids and **sulfonic**
acid-fatty acid mixts. with Na_2CO_3 , followed by continuous cold drying.
The wt. and size of granules depend on the release rate of CO_2 in the
neutralization reaction, and on the **sulfonic** acid-fatty
acid ratio. The process makes it possible to decrease the content of
phosphates and nonionic surfactants by prevention of thermal
degrdn. and the substitution of Na_2CO_3 for Na_2SO_4 has a softening effect
on water during laundering. The low energy consumption, and low
investment and maintenance costs of the turbo dryer are the main
advantages of the cold-dry process.
ST detergent manuf cold dry process
IT Detergents
(granular, manuf. of lightweight, continuous cold-dry process for)

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